	Application No.	Applicant(s)	
Notice of Allowability	10/050,334	AGARWAL ET AL.	
	Examiner	Art Unit	
	Tuan H. Nguyen	2813	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	pears on the cover sheet wit S (OR REMAINS) CLOSED in 5) or other appropriate commu RIGHTS. This application is s	this application. If not included nication will be mailed in due course. THIS	3 Itive
1. This communication is responsive to <u>Amendment dated 2</u>	<u>2/28/07</u> .		
2. The allowed claim(s) is/are <u>22-24,26 and 28-31</u> .	•		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority to a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> </ul>	ve been received.		
Copies of the certified copies of the priority d			
International Bureau (PCT Rule 17.2(a)).	ocuments have been received	in this national stage application from the	
* Certified copies not received:		•	
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.		
4. A SUBSTITUTE OATH OR DECLARATION must be subrinFORMAL PATENT APPLICATION (PTO-152) which gives	mitted. Note the attached EXA ves reason(s) why the oath or	MINER'S AMENDMENT or NOTICE OF declaration is deficient.	
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	ust be submitted.		
(a) I including changes required by the Notice of Draftsper		( PTO-948) attached	
1)  hereto or 2)  to Paper No./Mail Date		•	
(b) ☐ including changes required by the attached Examined Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR)			
each sheet. Replacement sheet(s) should be labeled as such in	the header according to 37 CFI	R 1.121(d).	
<ol> <li>DEPOSIT OF and/or INFORMATION about the dep- attached Examiner's comment regarding REQUIREMENT</li> </ol>	OSIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	RIAL must be submitted. Note the LOGICAL MATERIAL.	
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Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5   Notice of Inf	armal Dataut Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		ormal Patent Application mmary (PTO-413),	
3. ⊠ Information Disclosure Statements (PTO/SB/08),	Paper No./N	Mail Date Amendment/Comment	
Paper No./Mail Date <u>2/07</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	· _	Statement of Reasons for Allowance	
of Biological Material	9.		
	J	<del>.</del>	

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the specification, page 1, in "RELATED PATENT DATA" section, line 2, after "August 31, 2000", insert: -- now US Pat. No. 7,112,503 --.

## **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: It is agreed that none of the art of record teaches or suggests the claimed capacitor construction including a HSG layer over the sides of the opening but not over the bottom; and a conformal first capacitor electrode containing TiN on the HSG polysilicon, the first electrode being sufficiently thin that the first electrode has a rugged outer surface with an outer surface area per unit area greater than an outer surface area per unit area of the surface underlying the first electrode.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan H. Nguyen whose telephone number is 571-272-

1694. The examiner can normally be reached on 9AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr. can be reached on 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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